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10/579,736	05/18/2006	Motohiro Itadani	4918-0107PUS1	3542
2292 7590 12/18/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
			MOONEY, MICHAEL P	
FALLS CHUR	.CH, VA 22040-0747		ART UNIT	PAPER NUMBER
		,	2883	
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## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/579,736	ITADANI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael P. Mooney	2883				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING IDENTIFY TO BE A STATE OF THE MAILING IDENTIFY THE	DATE OF THIS COMMUNIC .136(a). In no event, however, may a re d will apply and will expire SIX (6) MONT tte, cause the application to become ABA	ATION. ply be timely filed  HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) Th  3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final.  ance except for formal matte	•				
Disposition of Claims						
4)  Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-15 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to be drawing(s) be held in abeyand ction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/24/06, 5/18/06.	Paper No(s)	immary (PTO-413) /Mail Date ormal Patent Application -·				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over ltakura et al. (7164458).

Itakura et al. teaches a liquid crystal display device of an in-plane switching mode (e.g., figs. 4, 10) which comprises a pair of polarizers which are a polarizer at an output side and a polarizer at an incident side and disposed at relative positions such that absorption axes of the polarizers are approximately perpendicular to each other (e.g., figs. 4, 10) and at least optically anisotropic member (A), optically anisotropic member (B) and a liquid crystal cell which are disposed between the pair of polarizers, wherein n.sub.zA>n.sub.yA and n.sub.zB>n.sub.yB when, with respect to optically anisotropic member (A) and optically anisotropic member (B), refractive indices in a direction of an

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in-plane slow axis are represented by n.sub.xA and n.sub.xB, respectively (e.g., figs. 4, 10), refractive indices in a direction in-plane and perpendicular to the direction of an in-plane slow axis are represented by n.sub.yA and n.sub.yB, respectively (e.g., figs. 4, 10), and refractive indices in a direction of a thickness are represented by n.sub.zA and n.sub.zB, respectively (e.g., figs. 4, 10), ; the in-plane slow axis of optically anisotropic member (A) and the in-plane slow axis of optically anisotropic member (B) are disposed at relative positions approximately parallel or approximately perpendicular to each other (e.g., figs. 4, 10); and the in-plane slow axis of optically anisotropic member (A) and the absorption axis of a polarizer disposed closer to optically anisotropic member (A) are disposed at relative positions approximately parallel or approximately perpendicular to each other (e.g., figs. 4, 10; col. 5 line 32 to col. 9 line 40).

Although Itakura et al. does not explicitly state "each measured using light having a wavelength of 550 nm" it would have been obvious to do so because it is conventionally known to measure the said refractive indices using light having a wavelength of 550 nm for the purpose of measuring values that are useful and/or in the middle of the visible spectrum.

Thus claim 1 is rejected.

Although Itakura et al. does not explicitly state "wherein an absolute value of a difference between n.sub.xA and n.sub.zA is 0.003 or smaller, and an absolute value of a difference between n.sub.xB and n.sub.zB is 0.003 or smaller" it would have been obvious to do so because it is conventionally known that the materials typically used for the refractive index ranges/values suggested by Itakura et al. have "an absolute value of

a difference between n.sub.xA and n.sub.zA is 0.003 or smaller, and an absolute value of a difference between n.sub.xB and n.sub.zB is 0.003 or smaller" for the purpose of using reliable art-established materials. Thus claim 2 is rejected.

Itakura et al. teaches wherein an absolute value of a difference between n.sub.xA and n.sub.zA is 0.003 or smaller, and n.sub.xB>n.sub.zB (e.g., figs. 4, 10). Thus claim 3 is rejected.

Itakura et al. teaches wherein the absorption axis of the polarizer at the output side and the in-plane slow axis of a liquid crystal of the liquid crystal cell under application of no voltage are disposed at relative positions parallel to each other, optically anisotropic member (A) and optically anisotropic member (B) are disposed between the liquid crystal cell and the polarizer at the incident side, and the in-plane slow axes of optically anisotropic member (A) and optically anisotropic member (B) are disposed at relative positions approximately perpendicular to each other (e.g., figs. 4, 10). Thus claim 4 is rejected.

Itakura et al. teaches wherein the in-plane slow axis of optically anisotropic member (B) and the in-plane slow axis of the liquid crystal cell under application of no voltage are disposed at relative positions approximately perpendicular to each other, and optically anisotropic member (A) is disposed at a side of the liquid crystal cellB (e.g., figs. 4, 10). Thus claim 5 is rejected.

Itakura et al. teaches wherein the absorption axis of the polarizer at the output side and the in-plane slow axis of a liquid crystal of the liquid crystal cell under application of no voltage are disposed at relative positions parallel to each other,

optically anisotropic member (A) and optically anisotropic member (B) are disposed between the liquid crystal cell and the polarizer at the output side, and the in-plane slow axes of optically anisotropic member (A) and optically anisotropic member (B) are disposed at relative positions approximately perpendicular to each other (e.g., figs. 4, 10). Thus claim 6 is rejected.

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Itakura et al. teaches wherein the in-plane slow axis of optically anisotropic member (B) and the in-plane slow axis of the liquid crystal cell under application of no voltage are disposed at relative positions approximately perpendicular to each other, and optically anisotropic member (B) is disposed at a side of the liquid crystal cell (e.g., figs. 4, 10). Thus claim 7 is rejected.

Itakura et al. teaches wherein the absorption axis of the polarizer at the output side and the in-plane slow axis of a liquid crystal of the liquid crystal cell under application of no voltage are disposed at relative positions parallel to each other, and optically anisotropic member (A) and optically anisotropic member (B) are disposed separately between the liquid crystal cell and the polarizer at the incident side and between the liquid crystal cell and the polarizer at the output side (e.g., figs. 4, 10). Thus claim 8 is rejected.

Itakura et al. teaches wherein the in-plane slow axis of optically anisotropic member (B) and the in-plane slow axis of the liquid crystal cell under application of no voltage are disposed at relative positions approximately perpendicular to each other, and optically anisotropic member (A) is disposed between the liquid crystal cell and the polarizer at the output side (e.g., figs. 4, 10). Thus claim 9 is rejected.

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Each and every element of each of claims 10-15 is rendered as obvious by the reasons and references given above and/or conventionally known art-established principles (e.g., figs. 4, 10; col. 5 line 32 to col. 9 line 40). Thus claims 10-15 are rejected.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Mooney whose telephone number is 571-272-2422. The examiner can normally be reached during weekdays, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Michael P. Mooney

Examiner Art Unit 2883

FGF/mpm 12/8/07 Frank G. Font

**Supervisory Patent Examiner** 

Art Unit 2883